

The Basics of a Good Gravel Road

A Gravel Road Maintenance Class

May 2, 2006 (#1118)

**Red Lion Kennewick, 1101 N. Columbia Center Blvd.
Kennewick, WA 99336 (509) 783-0611**

(The phone number above may be used to make hotel reservations or in case of emergency to contact a student in the class.)

Cost: \$45

Time: 8:30 a.m. to 4:00 p.m.

Class Size: 35

Instructor: William F. Heiden, P.E., P.L.S.

Target Audience

This class is for anyone who has responsibility for maintenance and/or design of gravel roads and streets. Maintenance operators and supervisors of city, county, tribal, state, and forest service roads will expand their knowledge about maintaining gravel roads. In addition, design engineers, technicians, field engineers, inspectors, and industry representatives will find Mr. Heiden's presentation very beneficial.

Course Description

Gravel and dirt roads make up approximately thirty-six percent of all roads in the United States today. However, the funds allocated to these roads are often only a small portion of the total amount spent on roadway construction. Therefore, it is important to take full advantage of the knowledge, tools, and techniques available to us today.

The WST2 Center offers this training to local agencies and other Washington State municipalities who have gravel roads within their jurisdictions. Mr. Heiden comes from Colorado to present his program on the basic maintenance and construction of a good gravel road, and will address all major problems and concerns of unpaved roads: washboarding (corrugation), traffic patterns, rutting, surface drainage, dust control, surface material, and roadside obstructions. The techniques that Mr. Heiden teaches can help an agency reduce their unpaved road maintenance expenditures up to 40 percent or less of current expenditures in three to five years.

Agenda

- **Engineering Basics:** In-depth discussion of desired traffic wear patterns: Proper shape, centerline, cross slope, roadway edges, and roadside intimidation.
- **Good Surface Materials:** A brief, simplified explanation of how soils work and what you need for a lasting road.
- **Dust Palliatives/Base Stabilizers:** Report on a joint study on the use and effectiveness of dust palliatives.



- **Equipment and Methods to Maintain a Good Gravel Road**
- **Sequences and Specifications**

Instructor

Bill Heiden is a professional engineer and retired land surveyor. He has a background of over 40 years experience as a county road engineer and contractor working in the construction and maintenance of roads in Larimer and Gilpin Counties in Colorado. Since 1999 he has consulted and lectured in New Mexico, Arizona, South Dakota, Texas, Utah, Oklahoma, Indiana, Idaho, Oregon, Alaska, Wyoming, as well as in Washington State and British Columbia. Mr. Heiden is recognized throughout the United States for his expertise on drainage and gravel roads. He has a wealth of knowledge on practical business measures that can help cut costs for your agency.

Questions? Contact Laurel Gray at (360) 705-7355 or GrayL@wsdot.wa.gov.

Registration

Please register on-line using this link: [On-line Registration Form](#). Fill in your information*, select your class from the list, then press "Submit." A registration notice with driving directions to the location is e-mailed to you when we process your request. **If you do not receive this e-mail notification within a day, you may not be registered and should contact us by phone.**

Please do not prepay, an invoice will be mailed after the class. Confirmation letters are mailed three weeks prior to the class. If you are unable to attend, someone else from your agency may attend in your place. To cancel your registration, or for assistance with registration, e-mail wst2center@wsdot.wa.gov or schmidw@wsdot.wa.gov or phone (360) 705-7386.

* A "unique identifier" for each student is now required when registering on-line. It may contain 3 to 8 alpha and/or numeric characters. You might use your phone extension number, a pet's name, your birthstone, birthdate, etc. but please make it something you will remember. Our computer will match your last name with your identifier to automatically and quickly register you into a class (providing there is space available).

(Disability accommodations provided upon request.)

Washington State Technology Transfer Center Web Page

www.wsdot.wa.gov/TA/T2Center/t2hp.htm



**Washington State
Department of Transportation**